

09716503.112000

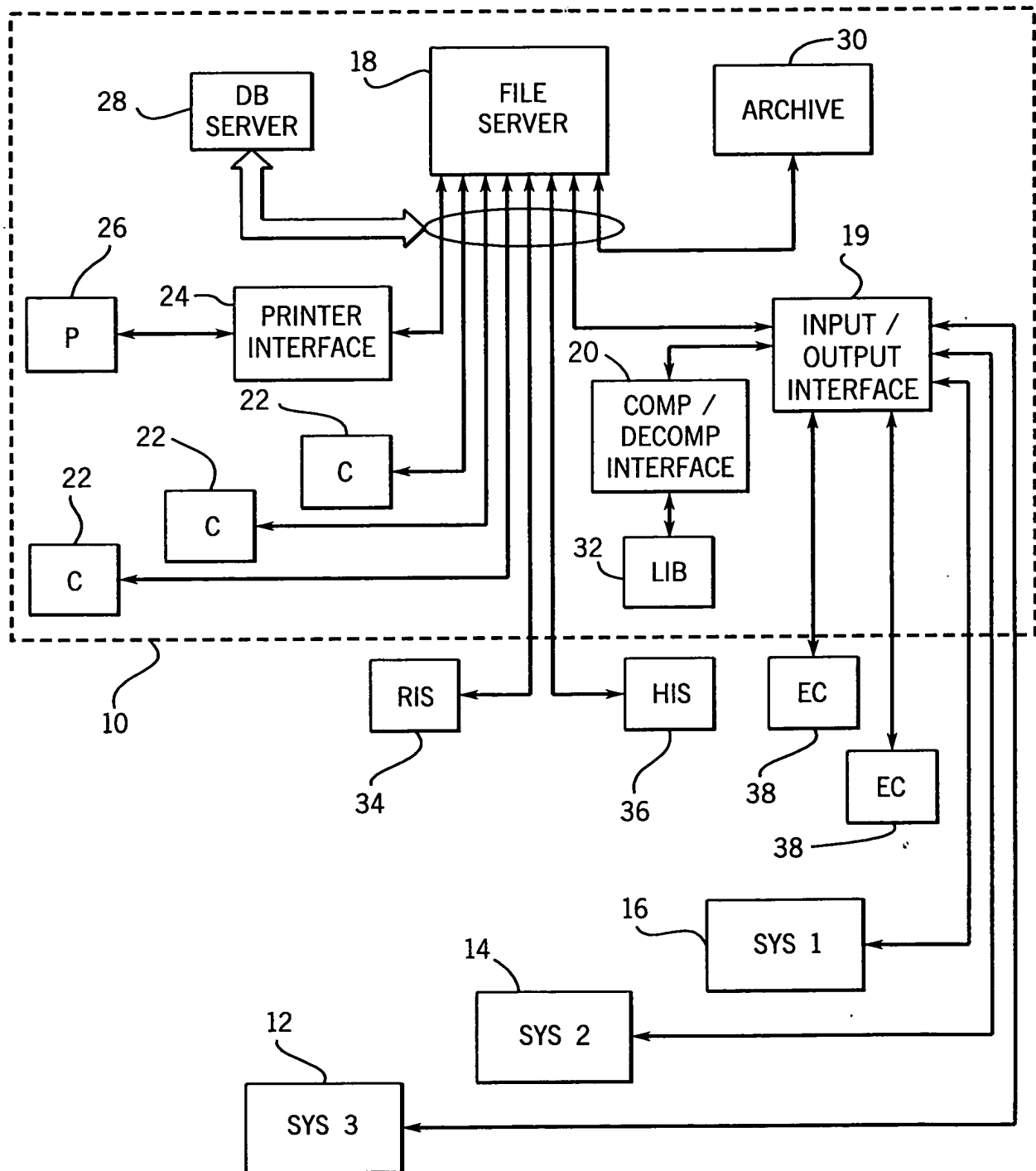


FIG. 1

09716603.112000

FIG. 2

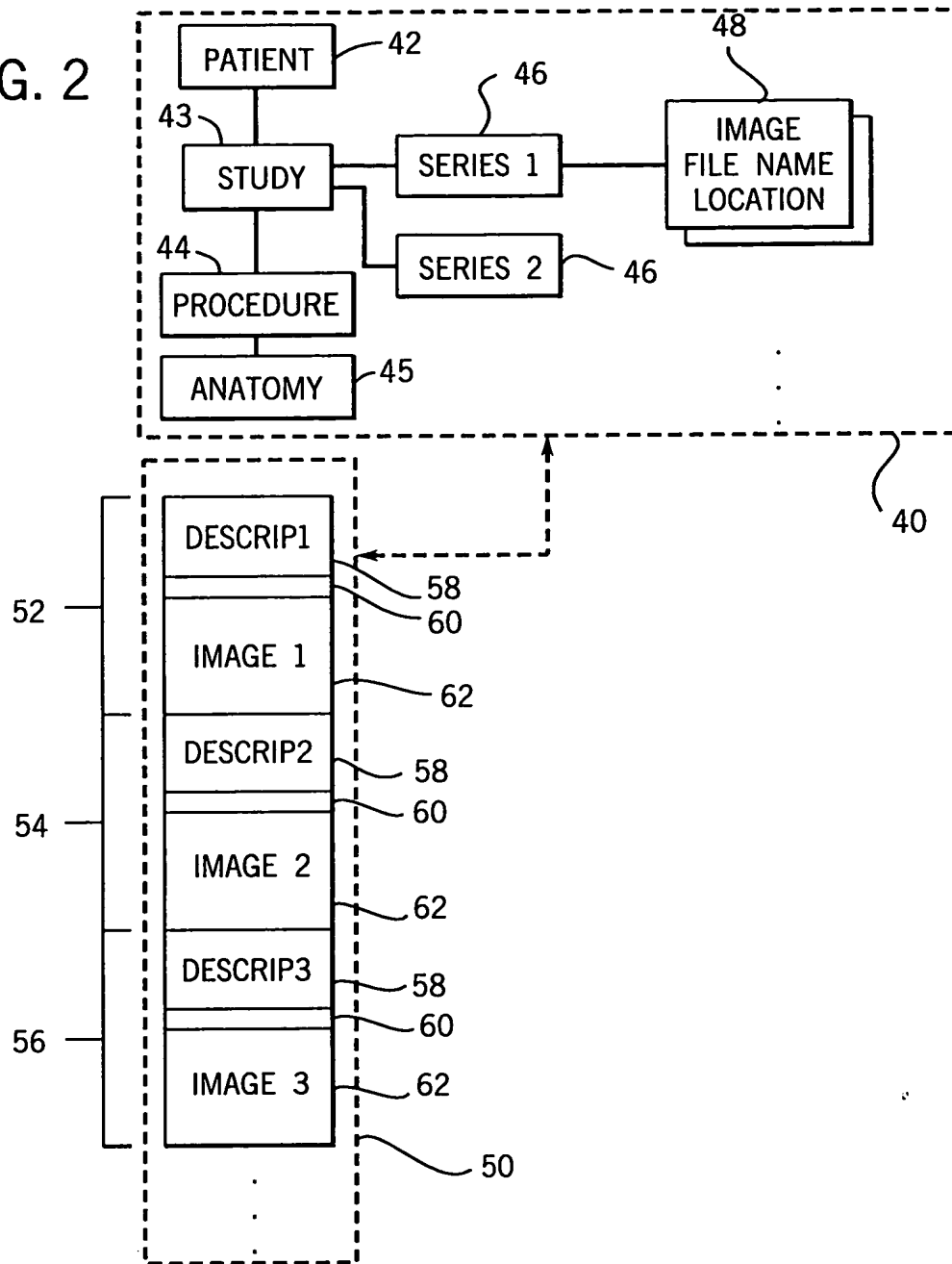
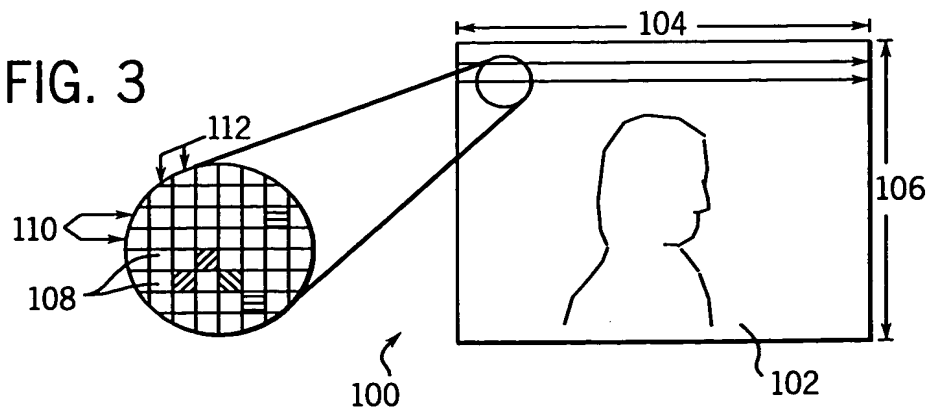


FIG. 3



+

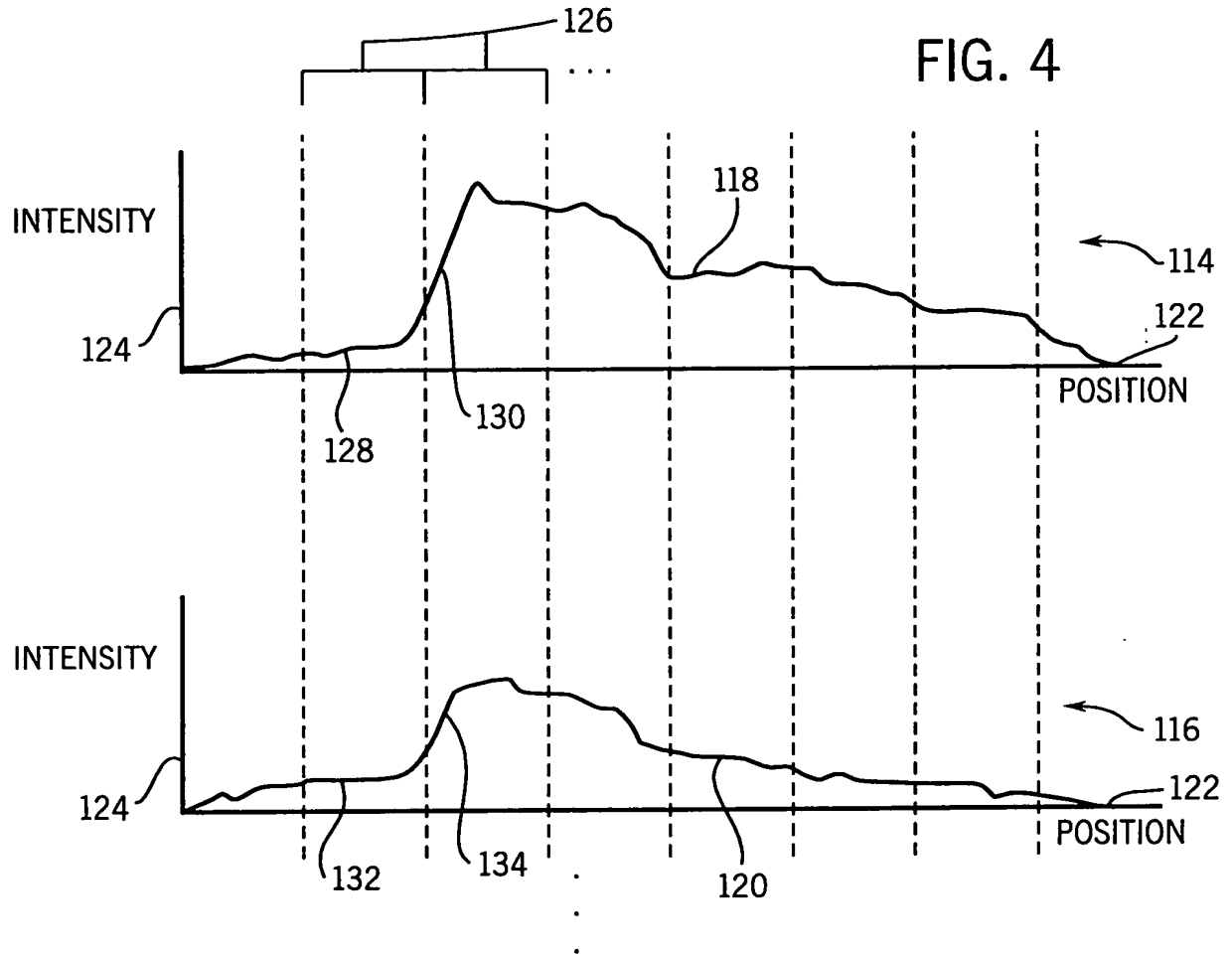
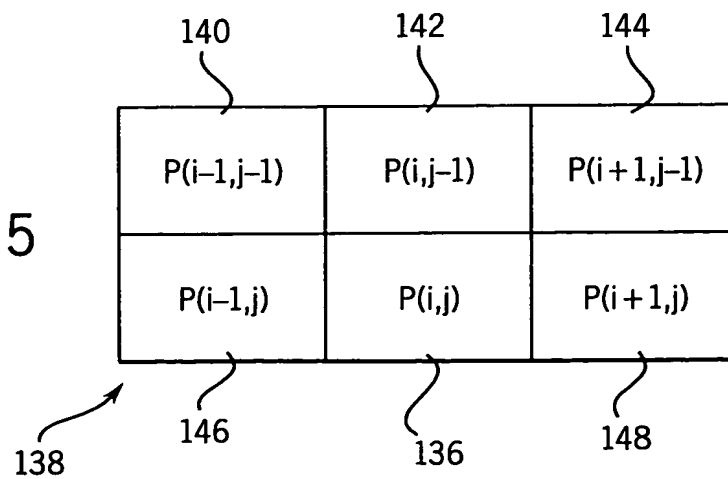


FIG. 5



09715603 112000

+

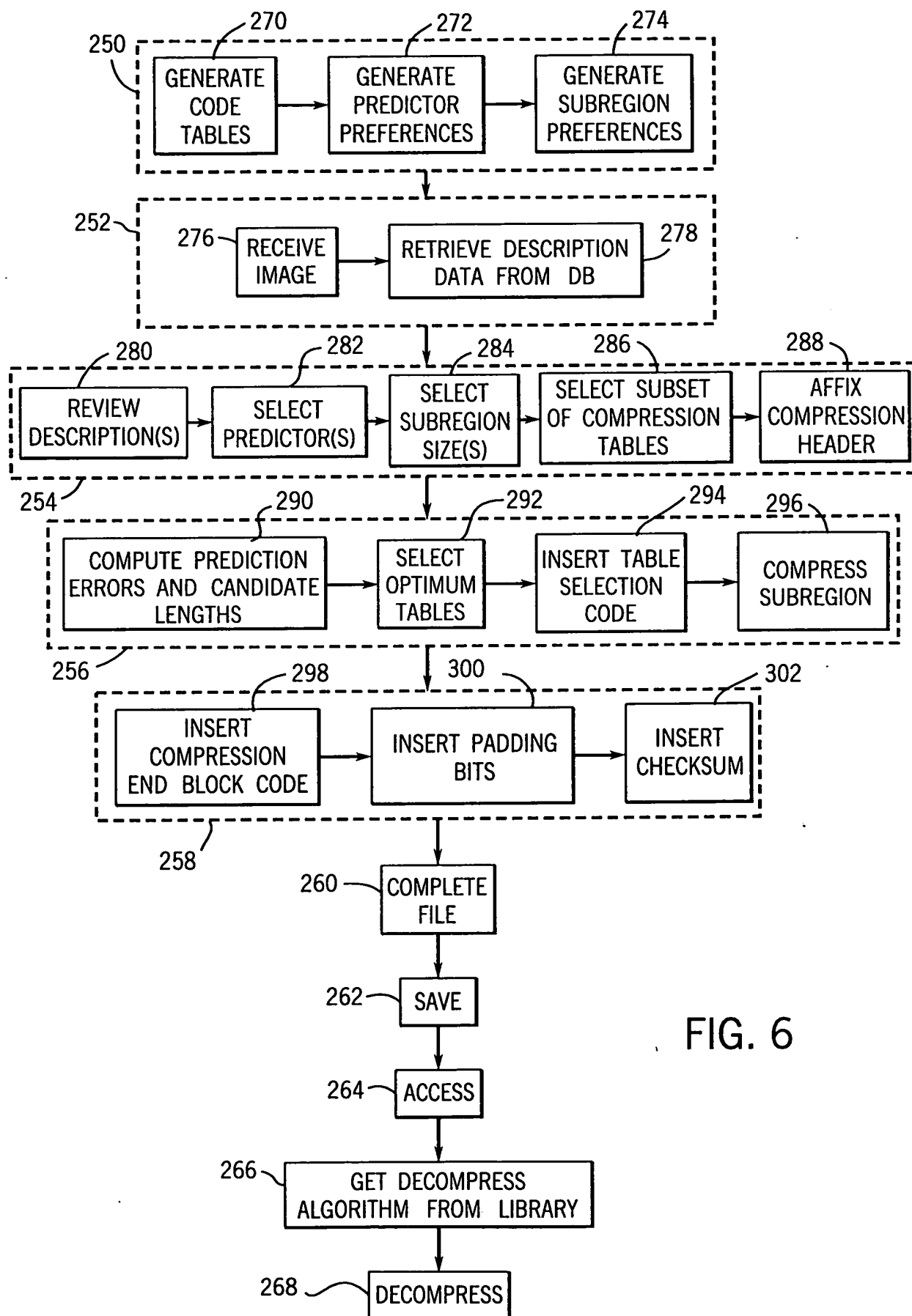


FIG. 6

09716503.1.2000

+

16 - BIT LOSSLESS ENCODING
SCHEME 0 - MAX RATIO = 16:1

FIG. 7

HUFFMAN CODE PREFIX	CODE EXTENSION	DIFFERENCE d	CODE LENGTH	ENCODED RANGE WIDTH
180 0		0	1	0
100		+1	3	+1
101		-1	3	
1100	X	+2 TO +3	5	+2
1101	X	-2 TO -3	5	
11100	XX	+4 TO +7	7	+4
11101	XX	-4 TO -7	7	
111100	XXX	+8 TO +15	9	+8
111101	XXX	-8 TO -15	9	
1111100	XXXX	+16 TO +31	11	+16
1111101	XXXX	-16 TO -31	11	
11111100	XXXXX	+32 TO +63	13	+32
11111101	XXXXX	-32 TO -61	13	
111111100	XXXXXX	+64 TO +127	15	+64
111111101	XXXXXX	-64 TO -127	15	
1111111100	XXXXXXX	+128 TO +255	17	+128
1111111101	XXXXXXX	-128 TO -255	17	
11111111100	XXXXXXXX	+256 TO +511	19	+256
11111111101	XXXXXXXX	-256 TO -511	19	
11111111110 <16 BITS)		ACTUAL VALUE	27	
1111111111		END OF BLOCK	11	

172 174 176 178 170

00716603 112000

SCHEME 1 - MAX RATIO = 5.33:1

FIG. 8

HUFFMAN CODE PREFIX	CODE EXTENSION	DIFFERENCE d	CODE LENGTH	ENCODED RANGE WIDTH
00	X	0 TO +1	3	1
01	X	-1 TO -2	3	
100	XX	+2 TO +5	5	+4
101	XX	-3 TO -6	5	
1100	XXX	+6 TO +13	7	+8
1101	XXX	-7 TO -14	7	
11100	XXXX	+14 TO +29	9	+16
11101	XXXX	-15 TO -30	9	
111100	XXXXX	+30 TO +61	11	+32
111101	XXXXX	-31 TO -62	11	
1111100	XXXXXX	+62 TO +125	13	+64
1111101	XXXXXX	-63 TO -126	13	
11111100	XXXXXXX	+126 TO +253	15	+128
11111101	XXXXXXX	-127 TO -254	15	
111111100	XXXXXXXX	+254 TO +509	17	+256
111111101	XXXXXXXX	-255 TO -510	17	
1111111100	XXXXXXXXX	+510 TO +1021	19	+512
1111111101	XXXXXXXXX	-511 TO -1022	19	
1111111110 <16 BITS)		ACTUAL VALUE	26	
1111111111		END OF BLOCK	10	

184

+

+

09716603: 112000

190

+

09716603: 112000

← 192

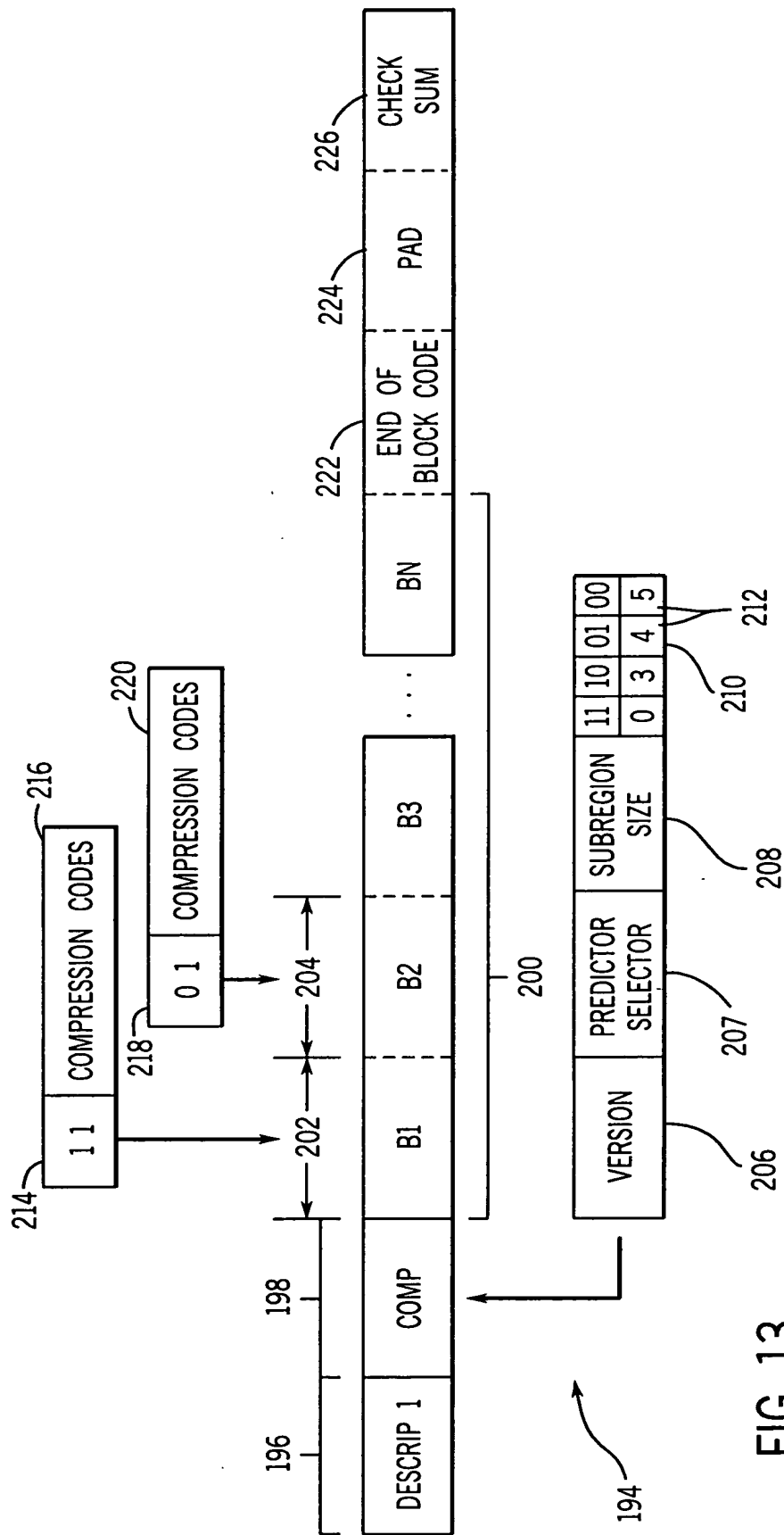
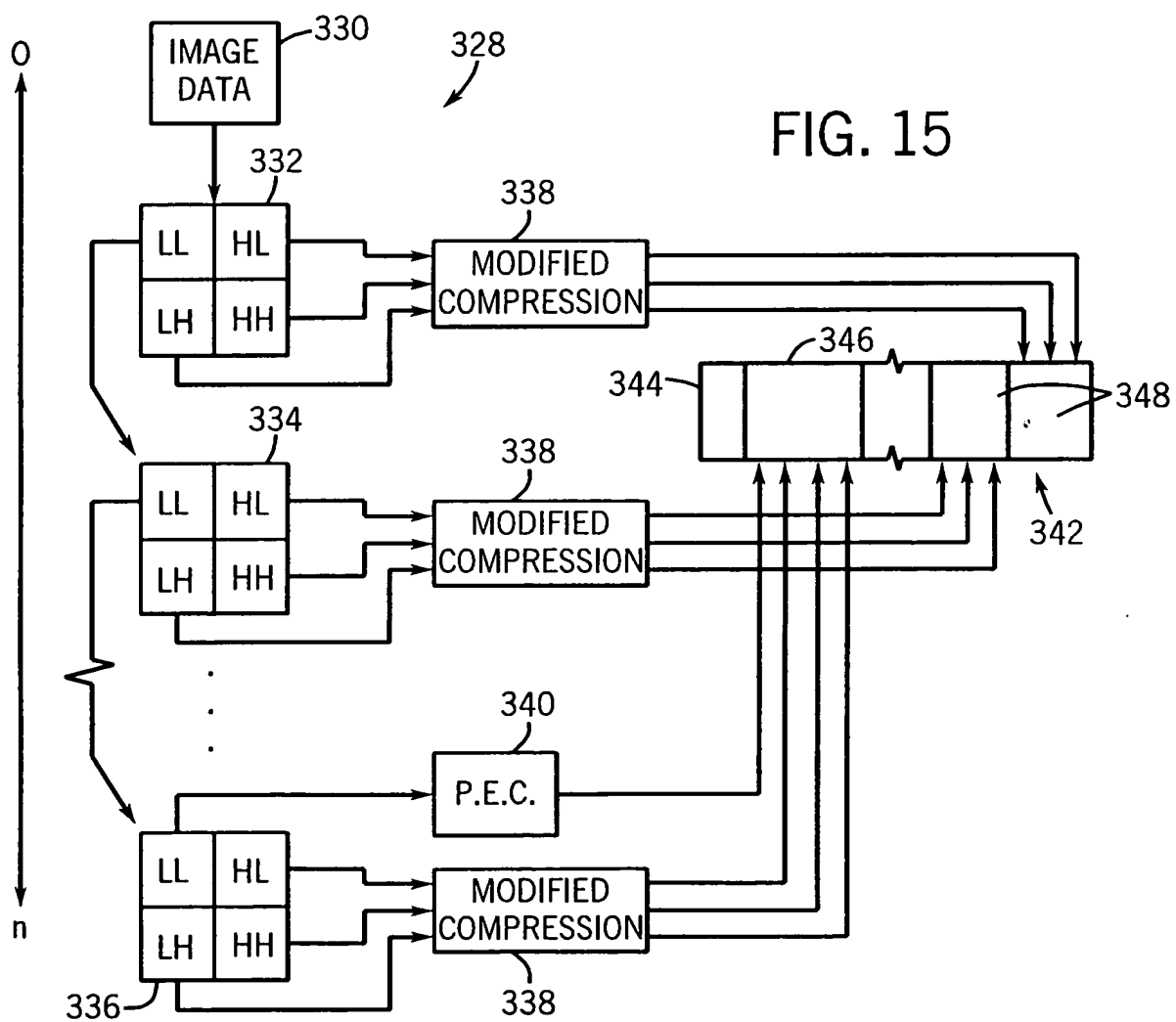


FIG. 13

00000000000000000000000000000000



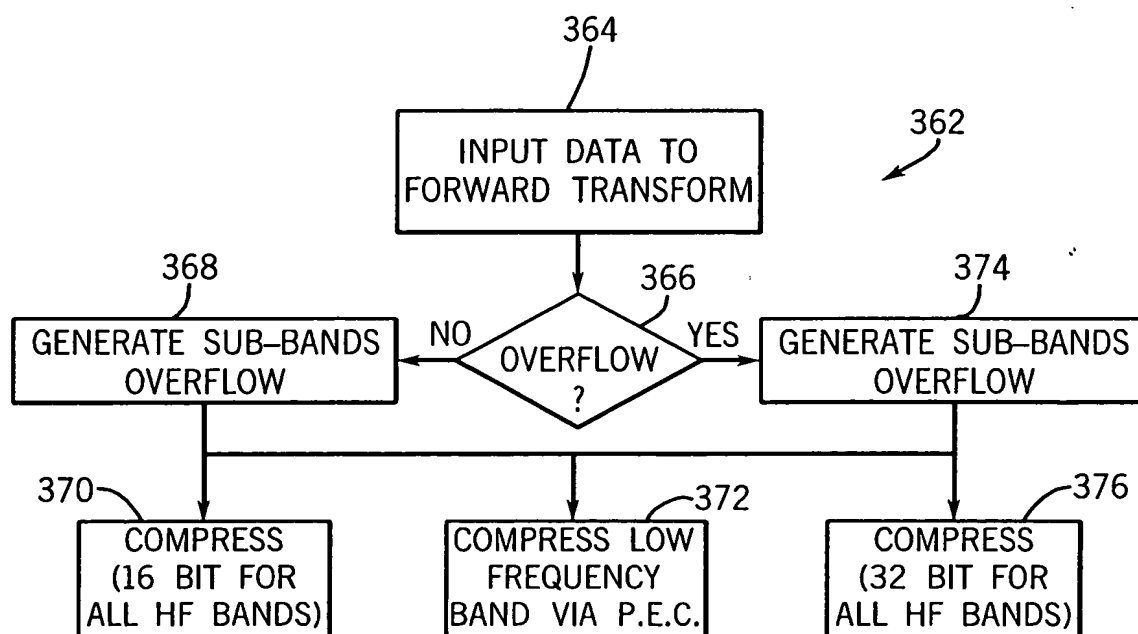
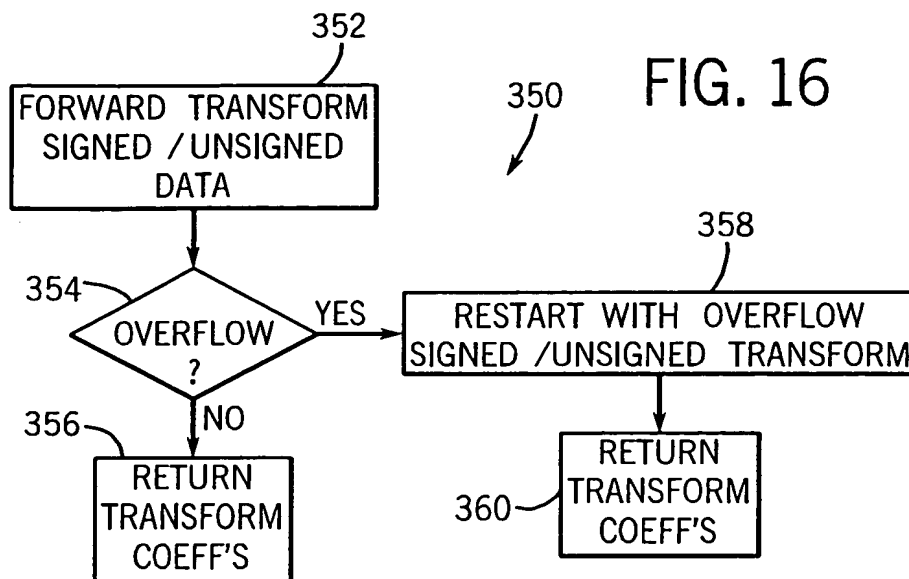


FIG. 17

FIG. 18

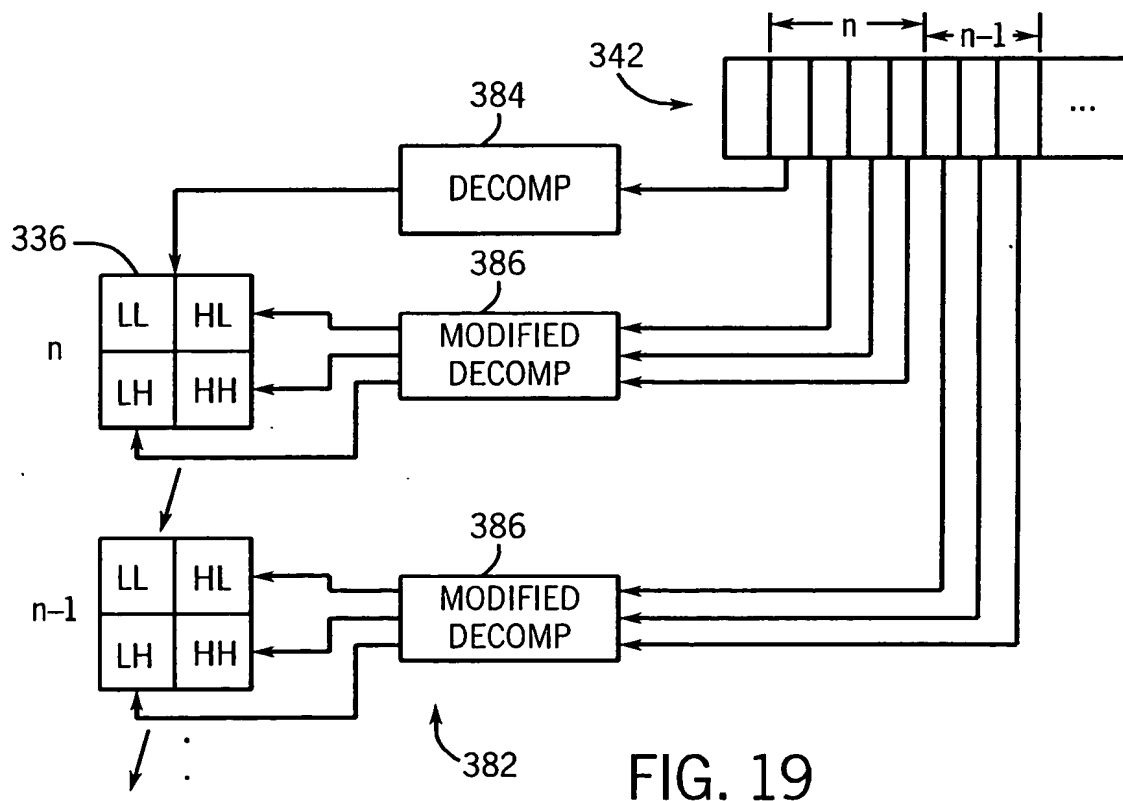
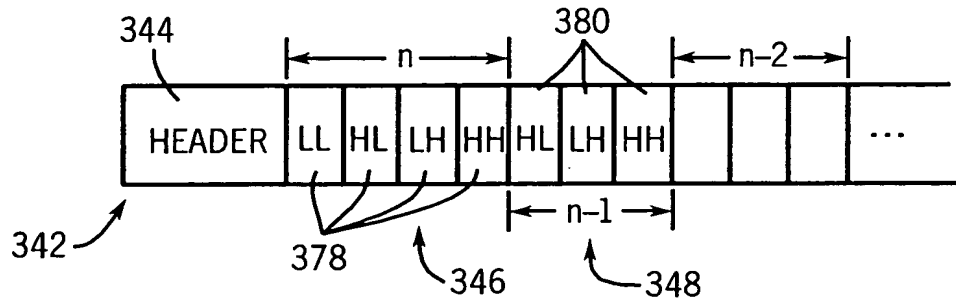


FIG. 20

LEVEL	ROWS	COLS	COMPRESSED BYTES	EFF COMP RATIO
5	64	79	5652	1811:1
4	128	157	13780	526:1
3	256	313	49868	147:1
2	512	625	186128	40:1
1	1024	1250	724560	10:1
0	2048	2500	2929860	2.6:1

388